

Make Appointments to The Instructing Staff

Announced by President After
Committee Meeting Held
Yesterday

NINE MEN ARE APPOINTED

L. B. Chapman '10 to Assist in
The Construction of the
New Naval Tank

Lawrence B. Chapman '10, head of the course in Marine Engineering and Transportation at Lehigh University until this year, has been appointed to assist in the construction of the new naval tank and the course in ship operation at Technology. President S. W. Stratton announced after the meeting of the Executive Committee of the Corporation yesterday afternoon. The appointment of Joseph W. Baker '16 as Assistant Professor of Electrical Engineering was also announced.

Other appointments include Lt. H. L. Milan and Lt. Anderson T. W. Moore as Assistant Professors of Military Science and Tactics; H. T. Mann, special lecturer in the Department of Mining, Metallurgy, and Geology to take the place of Professor W. S. Huthinson '92, who is on leave of absence; A. A. Roback, lecturer in Psychology for the General Study; and Karl D. Fenstrom '10 and H. H. Thurlby in the Department of Economics and Statistics.

Professor Chapman was graduated in Course XIII, and before going to Lehigh was Assistant Professor of Mechanical Engineering at the University of Maine. After leaving the Institute Professor Barker served with the Coast Artillery Corps of the Army. He is teaching courses in electrical communications.

Mr. Thurlby will do research work in the collection and organization of marketing problems. He comes to the Institute from Harvard Business School where he has done similar work. He was assistant Dean of the school in 1923 and 1924. Mr. Fenstrom was assistant in the Department of physics after being graduated from the course in Naval Architecture. For the past nine years he has been with the Newport News Shipbuilding and Dry Dock Co.

Lt. Milan and Lt. Moore will take the places left vacant by Lt. J. M. Heath and Lt. A. H. Gilkeson, transferred from the Institute last spring.

Plans for the Faculty insurance and retirement fund were discussed but no definite action was taken. Several details must be arranged with the insurance companies before a final decision can be reached.

SOCIETIES TO SHOW INDUSTRIAL MOVIES

A plan for giving M. I. T. men the benefit of observation of practical methods in industrial plants by showing moving pictures of different phases of industry has been inaugurated by the Combined Professional Societies. Beginning in two or three weeks, films will be shown covering a variety of subjects of interest to men in practically every course.

Among the subjects planned for showing to date are Manufacture of Steel, Metallurgy, Chemical Industries, Automobile industry, Oil Refining and Electrical topics. The purpose of the Combined Professional Societies is to cover as large a range of subjects as possible during the year.

SPECIAL NAVY COURSE 13-A IS DISCONTINUED

Technology has had to discontinue Course 13-A for special navy students because all the men in this course graduated in the Class of 1925. It was a course for advanced Navy students composed for the most part of older men who already had a great deal of practical Navy experience before they came to the Institute.

The course was first put under the direct supervision of Captain Elliot Snow; Captain Construction Corps, United States Navy; who is a graduate of the United States Naval Academy at Annapolis, but he was relieved during last year by Lieutenant D. W. Coe who took charge of the course for the balance of last year. This year, however, all of the Navy men are in a regular course under the direction of Professor William Hovegard. Lieutenant Coe was withdrawn by the Navy Department and is now at Annapolis.

VI-A STUDENTS TO LIVE IN NEW HOME

Company Plans to Better Living
Conditions of Men in
New York City

The American Telephone and Telegraph Company is at work on the details of a novel plan for maintaining ideal living conditions for those VI-A students who are to be assigned to New York City for their practice in the Communications Option of VI-A. The plan is somewhat different from that of X-A, the co-operative course in Chemical Engineering where club houses are maintained in the different cities for the use of the squad during the co-operative period.

The Telephone Company plans to establish a sort of "Tech Community" in a section in New York City which will be accessible from Kearny, N. J., where the manufacturing plant is located, from the Broadway offices of the A. T. & T. Co., the research laboratories of the Bell Telephone System at West Street, and the operating units of the New York Telephone Company.

Restaurant Also Planned

Even with the present limitation on the numbers admitted to this course it will be necessary to plan for a group of 30 men during each period. Judging from the present enrollment the indications are that the company will be asked to increase the number of students which they will take any one term so that probably arrangements will have to be made for from 50 to 60 students.

The plan includes dormitories, restaurant, and lounging rooms which can be used for general meetings and class room work. Such an arrangement will greatly facilitate the transfer of students at the end of the co-operative periods. It will not be necessary for students who are going to New York for their next assignment to look up rooms and restaurants.

CHEMICAL SOCIETY PLANNING BIG YEAR

Freshmen in Chemical Courses
Now Admitted to
Membership

Plans regarding the activity of the Chemical Society for the coming year are being discussed at meetings of the officers of that organization, and up to date the prospects are good for a very successful season. Several innovations are to be put into effect and there have been some changes in the plan of meetings.

The officers have decided to open the membership lists to freshmen as well as upperclassmen. Hitherto membership has been open only to Sophomores, Juniors and Seniors, but it is felt that freshmen should share the privilege of joining. This action is a complete innovation as there are only one or two other Societies which allow full membership to Freshmen.

According to the treasurer of the Society there is a fair surplus in the coffers, so the activities of the organization will not be handicapped by lack of funds. Tentative arrangements are already being made for a special celebration of some sort such as a dinner or other entertainment.

During the past semester, luncheon meetings were held, but due to the inconvenience in the time of day and other causes, this form of meeting will be discontinued. While plans for the first meeting are not complete a membership drive will probably be started next week. All men in the Chemistry courses are eligible for membership in the society.

CATHOLIC CLUB DINES IN WALKER TONIGHT

Ex-Senator D. I. Walsh, Dean Talbot and J. F. O'Neil will speak at the Catholic Club Smoker to be held in North Hall, Walker, tonight. The committee in charge of the affair has arranged a get-together affair which will include smokes, music and speeches. Mr. C. C. Shotts new Assistant to W. M. Ross of T. C. A. will be present. Program for coming year will be announced.

Few Freshmen Taking Sports in Place of PT

No undue enthusiasm has been shown up to the present time by the first year men in signing up for the various sports that may be taken instead of the regular gymnastic drill, according to H. P. McCarthy, Director of Physical Training at the Institute. Freshmen will have until the 24th of this month to make the substitution, and after that date there will be absolutely no chance to make the change.

As usual it will be required that men who elect a sport in place of gymnastic drill spend three hours or its equivalent per week instead of the two hours of drill. The sports that are offered are track, crew, swimming, boxing, wrestling, fencing, basketball and gym team.

GERMAN STUDENTS VISIT TECHNOLOGY

Group of Sixty First to Come
to America Since the
World War

As part of a ten thousand mile tour for the purpose of studying American manufacturing and educational methods, a group of about sixty students from German universities visited Technology yesterday. This is the first party of German students to come to America since the World War.

The students are from the University of Cologne and were in charge of Dr. E. Geldmacher and Dr. Arnold Weber of that institution. They arrived in New York Thursday on the Hamburg American liner Westphalia and on their way to Boston stopped at several of the Southern New England textile centers to study methods of production in some of the big mills.

The party of sixty was met here by Daniel J. Harkins, representative of the steamship company, and was conducted through the engineering laboratories of Technology by William Jackson of the Information office. Members of the faculty in the various departments described the work going on while the students moved thru the buildings.

Later the men were guests of the Institute at luncheon in Walker Memorial. They left early in the afternoon to meet Governor Fuller at the State House.

EXAMS START FOR AIR SERVICE SOPHOMORES

Officers Say Exam is Easier
To Take at This Time

Sophomores desiring to enter the advanced Military Science course in the Air Service Unit are urged by the military department to make appointments as soon as possible for the physical examination required of all entrants in the course. According to Lt. Mark R. Woodward, in charge of the Air Service Unit, men taking the examination early in the year have a better chance of passing, because, in order to pass a man's eyes should be in the best possible condition, and this is often not the case with many men later on in the year.

Like the other advanced Military Science courses, Air Service work begins during the second half of the sophomore year, and continues, at the option of the student, through the senior year. Air Service is the only branch requiring an examination, and is the smallest unit for this reason. Headquarters for the unit is at room 1-080, and those interested should make appointments for exams at once. It is intended to start giving them now, and to have them over before the middle of the term.

Smoker Tickets

Free dinner tickets for the All-Technology Smoker will be distributed to freshmen taking Military Science drill in their line-up today at 4 o'clock. Men not taking Drill and all new students, who are also entitled to attend the dinner, may receive their tickets by applying at the door to the Main Hall, Walker, on Friday at 6:30.

NOVEL ENTERTAINMENT FEATURES SMOKER IN WALKER FRIDAY NIGHT

BUT TWELVE FROSH OUT FOR FOOTBALL

Crew and Track Have Largest
Number of Men Out But
Spirit is Poor

According to the football coach C. C. Shotts, the supreme lack of interest shown by the freshmen is "utterly deplorable." Although about 30 men have signed up for the team at practice yesterday only about 12 men showed up and this is about the average number each night. Mr. C. C. Shotts is a letter man in football from the University of Alabama and is assisted in the coaching by members of last year's Sophomore squad.

The Sophomore aggregation numbers about twenty men who are showing up regularly and according to C. L. McLaughlin '26 and E. B. Kelly '26, the coaches of the team, the freshmen will not have a chance against their outfit.

Men Report on Tech Field

All men, either freshmen or Sophomores, who want to come out for the team should report at Tech Field any night at 4 o'clock at which time practice begins. Both teams need more equipment, the freshmen especially having only a few whole outfits in the team and, with this in view, the managers ask all men who have any sort of equipment to turn it in. The uniforms need only be loaned and can be brought over to the Track House or given to A. W. Rogers '26 who is supervising manager of Field Day Football.

Coach "Os" Hedlund as yet has no comment to make on the development of either track team. Last night he made up the schedule of the freshman relay workouts and there are about 25 or 30 men out. The number of Sophomores is about the same and as twelve men run on each team, the prospects are not too bad. However the coach wants to see more men out so that there will be a keen rivalry for positions on the team.

The tug-of-war teams are also in the same position as the freshman football team. The team calls for 25 men and only about a dozen have shown up. The coaches need about 50 men so that they may have a first and second team in order to have a tug-of-war each night between the two teams instead of tying the rope to a pole.

There are 103 freshmen out for crew and coach "Bill" Haines has most of the new men working on the machines.

Marked Enthusiasm Shown by Freshmen In Physical Exams

Many Men Have Minor Defects,
Including Tonsillitis
and Bad Teeth

More interest than in any year previous has been shown by the new students reporting for physical examinations at the Institute dispensary. To date, some 149 Freshmen have been examined and there have been 57 re-examinations for those signing up for the various athletic activities.

The results of the examination are interesting. There is a slight increase in the number of men having minor defects, these being principally infected tonsils, cavities in the teeth, lack of chest development and poor posture. Dr. G. W. Morse, Director of the Medical Department, is making a careful record of all such cases and advice is given to each one examined so that these defects can be corrected. At intervals the men report and in this way each individual case is followed up and beneficial results become an actuality.

There have been 2259 visitors at the dispensary since the first day in July and of this number reporting for medical attention, 131 members of the faculty and 651 employees have been examined and advised.

The privilege of examination is extended to all students and the same careful advice according to Dr. Morse, will be given to them as is given the new men. As usual, the members of the Senior Class will be examined in May of next year.

LUCKY HANDBILL HOLDERS WILL BE AWARDED PRIZES

Dinner Served for Freshmen
at 6:30 O'clock in the
Main Hall

THE PROGRAM IS VARIED

Dr. W. A. Rowe '01, H. D. Peck
'13 and Prof. R. E. Rogers
Will Speak

With the plans of the Committee rapidly crystallizing, the All-Technology Smoker to be held Friday evening in Walker Memorial promises to be one of the liveliest affairs of its kind ever offered to the student body.

As previously announced, a special roast chicken dinner will be served to freshmen and new students only in the Main Hall at 6:30 o'clock. Tickets will be distributed to the freshmen this afternoon at 4 o'clock when the men are assembled for Military Science drill. Freshmen not taking drill and all new students will receive their tickets by applying at the door in the Main Hall on Friday evening at 6:30.

Handbills Carry Luck

Hand bills, advertising the Smoker and bearing numbers, will be distributed throughout the Institute on Friday. The Committee urges everyone who expects to attend the Smoker to hold his numbered flyer for valuable free prizes which will be distributed later in the evening at a raffle.

The program for the evening is outstanding in its innovations and abundance of entertainment. Following the freshman dinner, brief activity talks will be given by Dr. A. W. Rowe '01, Secretary of the Advisory Council on Athletics, H. D. Peck '13 of the Advisory Council on Publications, and Professor R. E. Rogers of the Department of English. Professor Rogers will talk on Tech Show and the Combined Musical Clubs.

Following their dinner, the freshmen will have an opportunity to visit the activity offices and learn more about those activities which interest them most. As an innovation, also, special numbered handbills will be given out to the Freshmen in activity offices. The holder of the lucky number, to be announced later in the evening in the Main Hall, will receive a large Technology banner.

The real entertainment of the evening will start at about 8:15 with a
(Continued on Page 4)

CIVIL ENGINEERING SMOKER OCTOBER 23

The Civil Engineering Society has made arrangements to hold its first smoker of the year on October 23, and has secured Mr. Dexter Cooper, one of a family of famous engineers, to speak on this date. Mr. Cooper is at present engaged on the Passamaquoddy Bay tide power development scheme.

Arrangements are being made to have either a smoker or a trip at least once in three weeks. A more definite program for the year will be announced at a later date.

The official campaign for members started last Monday and already nearly one hundred men have signed up. The students in courses I, IV, XI, and XV, are eligible for membership according to the ruling of the American society of Civil Engineers with which the Institute society is affiliated. This year the experiment of allowing freshmen to join the organization as Junior members is being tried.

CALENDAR

Wednesday, October 7
7:00—Catholic Club, supper, North Hall, Walker.
Thursday, October 8
5:00—Institute Committee Meeting, Faculty room, Walker.
Friday, October 9
6:30—Freshman Dinner, Main hall, Walker.
8:00—All Technology Smoker, Main hall, Walker.

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The Tech
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Official News
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Undergraduates
of Technology

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FIELD DAY

ONE OF the great needs at Technology is more undergraduate spirit. Whoever called the Institute a factory was right in other ways than the one to which he was referring. Like a factory everyone works and works hard to keep his job. But for the most part it is at his own job, and with little more than a passing interest in his fellows.

There are various reasons why this condition exists. In the first place a large number of the students commute. They reach classes a few minutes before the hour in the morning, and race for a train when they are through at night. Then there is the athletic situation. Sports at Technology, for obvious reasons, are not those of most popular appeal. Thus, they draw only those who are particularly interested in them. In the third place there is the absence of hazing. Whether right or wrong, hazing does serve to mould together by common interest, at least the two lower classes.

As a result of these things the average man gradually fits into some particular nook with a certain group of men and there stays during his four years.

Into this atmosphere the new man comes. Very quickly he learns that he is to be left alone, to pick his own way in his own manner. As a result in a few weeks he is in a rut of lassitude out of which the activities spend two or three years trying to blast him, with more or less success.

When hazing or its equivalent was abolished at Technology, Field Day was introduced to take its place. At present it does not serve its purpose! For the purpose of truly moulding together the two lower classes it is a failure! Every year there is the same lassitude, the same urging, coaxing, appealing and finally tongue-lashing to get enough men to make even one team in each event. And it is usually the last week before fifty men can be blasted or shamed into making up these teams. If every member of the freshman class were asked now, or two weeks from now, what Field Day was all about, half of them could not give an intelligent answer. Six months from now some of these men will be complaining about lack of spirit, yet they will not support one of the principle things which is supposed to give it to them.

Field Day can and must be made into a strong tradition. And once made it will stand. Give an activity a successful year and the following year there will be an abundance of material. Tell a man that he will have to earn a place on the team that is going to represent his class, and he will report early.

If the class of 1929 wants to go down in history let it get out in full force for Field Day this year and next. If it can perform the laudable feat of winning both years, it will start a wave of enthusiasm that will go a long way toward putting Field Day where it belongs.

BURIED TREASURES

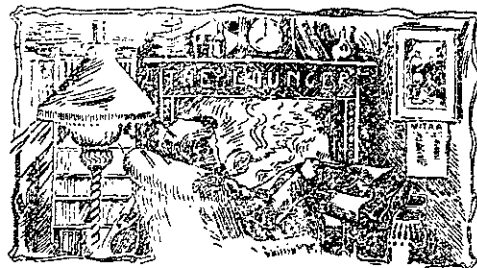
THE fall of the year is a rather discouraging time of year from the standpoint of class spirit. Comparisons are constantly being drawn between this class and that class, but in spite of the inertia of the men in the matter of Field Day there is every indication that the men are able to snap into it when they want to. Witness the extraordinarily large turnout of men for the fall tennis tournament. It can be taken as a mighty good sign that there is a lot of enthusiasm buried around the 'Stute. What we want to do is dig it up—give it an airing—and bring it around to the All Technology Smoker Friday night.

MEDICAL CARE

A STRANGER looking at Tech students would say that apparently they are a healthy group of men, and in this opinion they would not be far from right. However this same person should realize that among three thousand people there are sure to be a few with burns, cuts, bruises, or stomach-aches, colds and fevers.

The clinic of the Medical Department, which is organized to protect and promote good health, contends with not only a multitude of diseases and minor accidents, but also with the prevailing conditions so often spoken of in connection with the Institute. The worst of these conditions are overwork, late hours, and the lack of regular physical exercise.

The greatest success of the Medical Department has been in its efficient treatment of small matters. A cut properly treated at the time of injury means a saving of pain and time. A cold, if cared for when the first symptoms appear, will save from discomfort not only one, but several persons.



WATCH FOR A NOTICE OF
GREAT POLITICAL IMPORT
IN THIS COLUMN FRIDAY

As We Like It

COPLEY

Is a strike ever justified if it must cause suffering to hundreds of people, depriving them of their greatest needs? In such a case are the people warranted in fighting back with every possible means in order to prevent this suffering? To be more specific: if the striking railroad employees refuse to transport supplies to patients in an isolated hospital are the doctors of that institution justified in refusing to attend the strikers' families?

"The Right to Strike," being played at the Copley this week, presents these questions in a most vivid and gripping manner, and while a solution is hinted, the suggestion is not strong enough as to completely down one's own opinion. Judging by the applause at the various angles of the question the audience was by no means unanimous in its decision. The play, written by Ernest Hutchinson, was saturated with reminders of Galsworthy. With entirely different details, of course, the main theme, the age-old struggle of capital and labor, is presented almost identically as in Galsworthy's "Strife," and the solution to the problem remains almost identically as undetermined as in "Strife."

Ben Omereod, a labor leader, played by Mr. Clive and Dr. John Wrigley, played by Alan Mowbray, are, perhaps, the two more important parts, at least in the climax.

TREMONT

"Seventh Heaven" at the Tremont is "another good one of Golden's," well in keeping with his former successes, and of the same high standard as those plays that have endeared the name of Golden to the Boston Theatre-goers—even Mr. Golden and Mayor Curley admitted it at the opening performance.

A clever mixture of pathos and humor, a very effective play that kept the audience smiling through tears. "Seventh Heaven" is a romance of sewers and gutters. It deals with the unfortunate love of Chico, from the underworld, for a poor abused girl who turns out to be an heiress. The joys and the sorrows of the sad creatures who people the slums of Paris have been woven into the story in a most appealing way.

Louis D'Arcy, as Chico, the eccentric hero is indeed a "very remarkable fellow." Miss Forrest, as the pale and wan Diana, makes a good, though somewhat pathetic heroine. A dash of bluff humor, provided by a jolly priest and a slippery fingered but lovable taxi driver, keeps the play from being too serious, as it might easily have been with the tragic parting as Chico is called to the colors.

Good acting, good staging, a good plot, pathos and humor in just the right proportions—all combine to make a top-notch production.

W. A.

HOLLIS

A silly ass with a habit of taking lonely walks "out of bounds" into the woods with shop girls and a lovely and lovable woman who is the wife of an instructor give quite a jolt to the still-innocent Young Woodley, in the play of that name at the Hollis this week, the maiden attempt of a 23 year old Welsh professor, J. Van Dreuten. Exceptionally good acting and a worth while theme combine to make the show unusually good, in spite of a bit of awkwardness in the technique, which are to be expected of an inexperienced playwright.

Woodley's attempts to understand his "raison d'être" forms the underlying groundwork of the play. The fact that he writes poetry, that he falls in love with another man's wife, and that her name is Laura rather reminds one of a fourteenth century post-Petrarch—but whether the name was intentional is unknown.

Particular praise should go to Glenn Hunter, in the title role; Miss Gahagan, who makes a very attractive professor's wife; Edward Crandall, as Woodley's best friend, who tries to help him understand; and Mr. Harwood, as the above-mentioned role. All the players are well suited to their parts; and the drama is a relief after the deluge of musical shows Boston has just endured.

J. H. M.

New College Test Seeks More Accurate Grading By Eliminating the Personal Equation

The new type of examination in which, instead of answering questions, the student passes judgment upon the accuracy of written statements submitted to him, is destined to supersede the traditional quiz and to reduce the number of pupils who drop out of schools, in the opinion of Professor Ben D. Wood of Columbia University.

Professor Wood, who as director of the Achievement Test Research Department has made extensive experiments in his search of a better standard of grading, has concluded that the so-called "content" examination is a more objective test, since the statements are formulated by the teacher instead of by the student that it makes possible a more extensive sampling of the pupil's knowledge by requiring little writing and increasing the number of points on which he is tested; and that the wider range of the topics reduces the element of chance, the student answering as many as 200 questions in a single examination in place of the conventional ten.

"The old school examination," Professor Wood said, "has little value for educational administration because they are subjective, unreliable, incapable of standardization and of uncertain significance. They are subjective because the same paper will often be rated very differently by equally competent teachers. They are unreliable because two old type examinations given to the same students in the same subject matter, and rated by the same teacher give two widely divergent series of marks.

"They are incapable of standardization because teachers very rarely have the same standards of severity. The same teacher often changes his standards without knowing it, just as his standards of hotness and coldness vary with his own momentary bodily temperature."

"The old type is of uncertain significance because so many irrelevant considerations enter into the judgment of the teacher—his own temperamental mood of the moment, his reaction to the personality of the student, the handwriting of the student, the speed at which the student may compose English prose and write it, and the particular mood and efficiency of the student at the moment of taking the examination."

A fundamental objection to the essay examination, according to Professor Wood, is the inconvenient form of the questions and the fact that so much time is required in the actual

recording of the answers. The student's whole mental process is wrong. He approaches the examination expecting to be outwitted. The time limit set for the examination may hurry him into making careless answers, or may so agitate him, if he is slow in the actual writing down of the answers, as to befuddle his mind. The questions may be obscurely or tricky worded, so that a student who may actually know the answers required of him is misled into making false statements.

"So much time is required in the sheer recording of the responses that it is impossible to give more from six to ten questions on each examination," explained Professor Wood.

"The ideal examination is one which uses the whole examination period for pure cerebral activity in the field of thought in which the examinee is being measured. At the opposite pole in the scale of efficiency are those examinations which take a large part of the attention, time and energy of the examinee for purely recording processes and other less relevant activities.

"The attempt to measure achievement or ability in every branch of science or of the liberal arts through the sole medium of English prose is a notable case in point.

"It is a curious and inexplicable fact that even the most intelligent and otherwise cautious teachers attribute to English prose, produced under ordinary examination conditions, power which the Roman Senators used to attribute to astrologers, magicians and oracles. From the confidence with which teachers ordinarily believe that an essay examination reveals to them the mental powers, special achievement, literary appreciation and organizing ability of their students, one would easily conclude that English prose constituted a medium through which the examinee's very soul became as tangible and objective as a Euclidean proof. But this confidence, like so many current non-scientific beliefs, has no better basis than tradition."

Investigation has disclosed, according to Professor Wood that the passing mark of 60 per cent, a rating common throughout the country, is equally baseless. It is an arbitrary rating and no more measures the student's ability than the passing mark of 60 per cent, a rating common throughout the country, is equally baseless. It is an arbitrary rating and no more measures the student's ability than the passing mark of 60 per cent, a rating common throughout the country, is equally baseless.

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Play Directory

CASTLE SQUARE: "Able's Irish Rose." Ann Nichols' farcical comedy.
COLONIAL: Ziegfeld Follies.—Mr. Ziegfeld's usual style. Good.
MAJESTIC: "Rose Marie."—Continues its long run.
PARK: "The Show Off."—A very popular show.
PLYMOUTH: "The Gorilla."—A thrill and a laugh a minute.
SHUBERT: "The Student Prince."—An excellent production.
WILBUR: "What Price Glory."—Damned if it ain't good as hell.

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GLENN HUNTER in a New Play of College Life "YOUNG WOODLEY," by John Van Dreuten
Holiday Matinee Columbus Day

CREWS HAVE WORKOUT ON CHARLES

Five Shells On Water First Time This Year--- Four '28 Men On Varsity

There was much hustle and bustle about the boat house yesterday afternoon when two varsity and three class crews hit the water for the first time this year. The rowing of the varsity crews was about as smooth as could be expected in the initial workout of the season.

The crew rally held yesterday had much to do with the enthusiasm and renewed vigor of the Engineers "up-river" and it also accounted for the large number of new men who registered yesterday bringing the total out for crew up to the unprecedented total of 175. In the squad are 103 freshmen.

At the meeting Monday, Mark Greer was chairman and called on Manager Bob Bigelow, Captain Bill Latham, Dr. A. W. Rowe and Coach Bill Haines for short, spirited speeches. Coach Haines stressed the point that many more freshmen were needed and also urged all members and candidates for the different boats to pay strict attention to studies, for in the past very valuable men were lost to the crews because of low scholarship.

Frosh Eight Chosen

The air was rather raw when the varsity took to the water but the members had been looking forward to this initial launching and immediately fell into swing. Things looked very promising for crews of the next two years when it was announced that half of the present varsity eight was composed of members of last year's freshman crew. Line-up follows: Mercer, No. 1; Donovan, 2; Hammond, 3; Freeman, 4; Erickson, 5; Latham, 6; Kingby, 7; Underwood, 8; and Dearie, cox.

A first frosh eight was selected and though not a permanent seating, gives a general idea of how they may line up against the '28 men when November sixth rolls around. They appeared rather wobbly in their first workout but with plenty of conscientious practice they should develop into a creditable crew. They were seated as follows: Bayer, 1; Miers, 2; J. S. Jones, 3; H. Kimball, 4; Dolben, 5; Larken, 6; Harsus, 7; J. P. Palmer, 8; and Parkes, cox.

No Winter Rowing

In the course of the afternoon a Junior Varsity eight and a sophomore eight and a frosh "tub four" took short spins up and down the river. All appeared to work more or less stiffly, but of course this feature will rapidly disappear in a week or so.

Coach Haines is especially anxious to get his crews on the Charles as much as possible this fall because he has definitely decided not to have any Varsity candidates rowing on the machines this winter. This is an experiment inasmuch as he has not tried it at the Institute before, and if he finds it successful, he will probably establish this method permanently. However all the members and candidates for the Varsity crews will be required to substitute some other winter sport for the necessary exercise and development of stamina. Incidentally this influx of new men will greatly aid some of the minor sports and will bolster weaknesses in track, basketball and hockey. Heavy men are always needed in these latter sports and should benefit by the large number who will participate.

The crew management announces that an alumnus of the Institute has made it possible for the rowing authorities to hire an outside launch for this season, so that there are at present two perfectly good boats in which the coaches can follow the shells on their daily spins.

As only two freshman managers have reported for duty at the boat house, Manager Bob Bigelow has sent out an appeal for four more '29 men who wish to get into the managerial game. One of the six freshman managers will be appointed Manager of the Varsity crew at the end of his Sophomore year.

BASKETBALL PLANS GIVEN OUT AT RALLY

Twenty-two aspirants for the basket tossing quintet reported to Coach McCarthy in room 1-190 yesterday afternoon. Manager Jim Lyle briefly outlined the schedule for the ensuing season and stated that the schedule will be slightly altered due to the change to the two term system. It was announced that Dartmouth appears on the schedule for the first time.

Capt. Bill Forrester and Ernie Hinck are the only regulars back. They will probably take care of the forward positions. Of the squad there are Biehle, Umbenhauer, and Timmerman who will fight hard for regular positions. Norm Estes, captain of last year's yearling team and George Mock of the same aggregation will make a strong bid for guard positions. Bob Sealy, star of the Cornell frosh two seasons ago, is eligible for the team.

FOOTBALL TEAMS DEVELOP SLOWLY

Sophomores Have Better and More Efficient Team Than The Freshmen

All of the interest the frosh showed at the beginning of the season in football seems to be disappearing rapidly right at the time when they need it most. Of the 32 men that signed up for the sport at the beginning of the year, only twelve reported for practice yesterday. The Sophs, realizing what Field Day means are out in larger numbers and putting a great deal more pep in their practices.

So far, Coach Shotts of the frosh has been trying to instill the fundamentals of the game into the frosh, but the process seems ever so slow. The men that are out for the frosh team are all small, light men and will have to develop a fast, fighting team if they expect to overcome the odds against them. In order to obtain this type of team, it is necessary for every man that signed up for the sport to get out for practice every night, and put his whole spirit into the game.

Sophs Working on Signals

Most of the afternoon yesterday was spent in tackling, hitting the dummy and general hardening exercises. The men that do not come out regularly will not get this practice and will be soft when they get up against the heavier Soph team. And it is hardly possible that the coaches of the frosh will put a man into the game that is in this condition, no matter how much past experience he may have had. Taking the form shown yesterday as a criterion would lead one to the conclusion that the frosh need practice and much of it.

On the other hand, the Sophs are not reporting in such great numbers—that is numbers great enough to give them any decided edge. They are however much farther along in their training than the frosh and are beginning to show some knowledge of teamwork. When they are watched going through a snappy signal drill, visions of a terrible slaughter of frosh are conjured on Field Day.

Sophs Have Triple Threat

The Sophs not only outweigh their younger opponents apparently, but show an equal amount of speed. The backfield that was in action yesterday showed great promise of developing into a triple threat that will take a darn good team to stop, and as yet the frosh do not seem to be developing into that team. With a man that can pass with deadly accuracy, and two ends that were getting under the passes, it appeared as if the frosh would have to develop quite an offense against the overhead pass.

Besides the overhead pass, the Sophs have two more threats in end runs and a back field that can buck the line.

BEAVER SOCCER TEAM LOSES COACH McNAB

Twenty Candidates Report To Captain Monday Night

Hopes for the coming soccer season are running high despite the temporary lack of a coach and the loss of four of last year's regulars. Twenty promising candidates reported to Captain Arana at the soccer meeting Monday night and plans for the season were discussed.

It is expected that a coach will be found within a few days to take the place of Alexander McNab, last year's coach, who has returned to Scotland. In the meantime, practice is being conducted by Captain Arana every Monday and Wednesday night from five o'clock to five-thirty on Tech Field. The first practice will be held tonight and Captain Arana announces that any man having three practice cuts will be dropped from the squad.

The coach who takes charge of the team will have a big job to fill the gaps made by the loss of Bateman, Sun, Ruiz and Sacco. Bateman and Sun are lost by the graduation route. Ruiz was high point man last year and his absence will be felt keenly. A number of freshmen are expected to be out later, substituting soccer for Monkey Drill.

FENCERS LOSE COACH—GOES TO HARVARD

After many years coaching the Engineer swordmen, Coach Danguy has transferred his allegiance to Harvard, where he will continue the work he carried on so successfully at the Institute. Several times in the past has the Crimson management endeavored to wean the Institute mentor away from the Institute, but he has always held off until an offer was made that could not be compared with what the M. I. T. A. A. felt it was able to pay.

At Harvard, he will be in charge of the sabre team, giving his services six nights a week to grooming Crimson sabre wielders. If there is enough spirit around the Institute to warrant it, a sabre team will be started here, in order to wrest any Harvard laurels that are obtainable. If this is to be possible, a large number of men will have to come out for the sport and put in many hours of hard practice.

Manager Wilson of the fencing team is searching the depths of the Navy Yard in order to find a suitable coach for the Institute team. He estimated that he would have one in several days and that real practice would start then. However, the Varsity has already started practice, and are out three days a week. All candidates that wish to come out should report in north hall of Walker on Tuesday, Thursday and Saturday at 5 o'clock.

CALL SENT OUT FOR SWIMMING MANAGERS

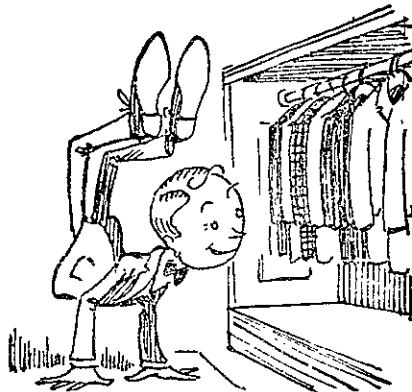
Several Changes in Rules Of N. E. Association

With still several weeks before practice begins, the swimming management has already made plans for a mass meeting the week before Field Day. The management wants all candidates for the managerial end of the sport to report at the A. A. office at once. There is an opening this fall for two Sophomore and four freshman assistants. Any man wishing to come out for manager should report to L. Bentry any afternoon this week or next after 4 o'clock.

Practice this year will be at the Cambridge "Y" instead of the Boston building as it has been in former years. The team will have Coach Dean back again this year.

There have been several changes in the swimming rules and regulations this year which will affect the Engineer mermen. There will no longer be a plunge in the New England Association, this association following the suit of the other associations in the country. The divers have also been affected slightly, that is limited slightly. In the optional dives, a man can no longer do the same dive standing and running. This will give the diver with the largest variety a much better chance than formerly.

A bone of contention several times last year has been removed by the new ruling in the relay. It is now definitely stated that the relay race will count eight points to the winner and none to the loser.



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Herald Sq. at 35th St. New York City Fifth Ave. at 41st St.

Tremont at Bromfield Boston, Massachusetts

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... and
P. A.!



WHEN Comp. Lit. and Physics 3-B are crowding for attention; when I've just received an over-cut notice from the Dean; when my allowance is a month off and the stub of my check-book confesses a balance of \$9.32, give me a pipe and Prince Albert. I want to be happy!

Trouble's a bubble, they say. And I can prove it . . . with my jimmy-pipe and P. A. Just never was a friend like Prince Albert. Cool and sweet and soothing, P. A.'s true-blue smoke zooms up the stem, knocking troubles for a row of test-tubes.

Never a tongue-bite or throat-parch. Just cool contentment, no matter how hard you hit it up. Give me a grate fire to chase the chill of winter nights, an easy chair and my jimmy-pipe packed with P. A. Nearby, a tidy red tin for frequent refills. I know, Brother, I know!

PRINCE ALBERT

—no other tobacco is like it!

P. A. is sold everywhere in tidy red tins, pound and half-pound tin humidor, and pound crystal-glass humidors with sponge-moistener top. And always with every bit of bite and parch removed by the Prince Albert process.



Look at the U. S. revenue stamp—there are TWO full ounces in every tin.

NAME COMMITTEE FOR DORM SMOKER

Each Hall Has Representative
In Newly Appointed
Body

A dormitory smoker committee, with C. E. McCulloch '26 as chairman, was named by the dormitory committee at their meeting Monday night. Other members of the committee for the smoker are E. J. Gohr '26, vice-chairman; H. J. Kaufmann '26, A. J. Tracy '27, F. C. Earl '27, N. C. Estes '28 and W. I. Bendz '28. Each of the dormitory halls has a representative in the newly appointed body.

In the past years the smoker for dormitory men only has become one of the outstanding events in the dormitory year and coming early in the first term, is one of the first real get-togethers of the dorms.

Although nothing definite has as yet been arranged, the committee expects that the affair will be held about the second or third week in November, after field day has passed. As in the last two years, the Carr Fastener Company's hall opposite the Technology rifle range will probably be obtained for the occasion.

Attendance is free to all men residing in the dormitories, the money coming from the dormitory tax which is imposed upon each resident. Plenty of cigarettes, sandwiches and cider with cigars for those who are fortunate to receive them has been one of the "drawing cards" of past smokers. A fast moving, unusual form of entertainment has always been provided.

ELIMINATE PERSONAL EQUATION IN EXAMS

(Continued from Page 2)

dent's knowledge or mental powers than do ten arbitrary questions.

"Why do we need examinations? Until recently they have been taken as a matter of course. It has been commonly assumed that any teacher is competent to give examinations and to rate students not only with regard to their achievements in different subject matters, but also in regard to their native intelligence, character, and general fitness to live in civilized society. At the present time, however we admit that the most competent teachers are rarely, if ever, able to give accurate estimates of any of these qualities.

"Under the old system of marks the proper classification of students is impossible, because in rating students each teacher uses a different language. There is no common denominator to the masses of marks given to students even in the same school."

"The basis of the grading," concluded Professor Wood, "is the student's knowledge of and ability to think in the material of the course as presented in the syllabus and in the classroom. The new examination, by reason of the large number of questions which may be included in it without crowding the examinee for time, reduces the factor of chance to

New Integrating Apparatus Will Solve Product of Two Functions

Machine Designed at Institute
Last Summer and is Now
In Practical Use

Work on the Recording Product Integrator, the integrating machine developed last year by the Electrical Engineering Research Department, has proceeded this summer until at present the machine is in a perfected stage.

The primary object of the Integrator is to obtain the integral of the product of any two functions which can be expanded. Both expressions involved in the transient condition of an electric circuit can be made to take that form due to the fact that the average product of two sinusoids is zero.

Used in Beam Problems
By making one function constant and the other function follow the shear equation of a loaded beam; the bending moment, slope, and deflection of the beam may be obtained by three successive integrations. The Integrator will also solve linear equations of the second order with variable coefficients.

Besides its employment in the solution of non-linear circuits it can also be used in the study of long distance weather forecasting and weather conditions or in the prediction of fluctuations in the stock market where use is made of the integral of two func-

a minimum; the student has two or three hundred chances as against the old examination's ten to pass or fail. To fail on ten questions out of a hundred is not the same as to fail on one out of ten.—Yale Daily News.

Fumare Prohibitur!

Those who smoke in the Main Lobby near the Cashier's Office cannot plead "ignorance of the law" since Bursar H. S. Ford has posted a "No Smoking" sign in 22 languages outside the door. The notice is headed, "You Mustn't in Twenty-two Languages." The list omits the Dutch version of the command, but that has been supplied by someone who penciled the correction upon the bulletin.

D. C. Stockbarger, instructor in the Department of Physics clipped the sign from the Boston Transcript and brought it to Eloy Benson, Curator of Apparatus in the department to be photostated. He showed it to Bursar Ford who thought it worth posting.

tion. It is also susceptible of use in connection with various statistical work.

The Integrator has already been used by the Electrical Engineering, Mathematics, and Applied Mechanics Departments and probably will be used much more fully by them this winter. Interest was shown in the machine this summer by European scientists, especially in England.

It is expected that when the scientific public becomes acquainted with the use and the limitations of the Integrator it will find a limited demand and additional applications for it will automatically appear.

CUT-A-WAY MOTOR MODELS DISPLAYED

Ball Bearing Testing Machine
Exhibited in Machine
Tool Laboratory

The Mechanical Engineering Department has acquired several new pieces of equipment this year, which are now on display in the machine tool laboratory in Building Three. The new equipment consists of three mounted automotive motors, a complete chassis and motor assembly, and a cabinet display for the testing of ball bearings.

The first motor is the Lincoln cut-a-way display model. It is an eight cylinder "V" type engine driven by an electric motor in order to clearly show the working action. Mechanically the Lincoln motor is a work of art in metal, and is considered a very good example of perfection in production methods; but has a great many moving and consequently wearing surfaces. The next model is a cut-a-way sleeve-valve-type motor which was furnished by the Institute by the Searns-Knight Motor Car Company. This model is also of interest because it shows quite plainly the action of the sleeves in valving the intake and exhaust gases. The third model is a cut-a-way model of the "L" Head type motor furnished by the Ford Motor Company. The Cadillac Motor Company has also supplied the Institute with a complete nickel-plated cut-a-way chassis with a "V" type engine for instruction purposes. According to H. S. Smith, Professor of Machine Construction, it is a very complete and expensive piece of equipment and will be of great assistance to the courses in automotive design.

In the Machine Tool Laboratory there is an exhibit furnished by the New Departure Manufacturing Company to illustrate how their ball bearings are tested for accuracy. The little steel balls are ejected from a small aperture in the upper right hand corner of the cabinet in a steady stream falling upon a carefully placed steel plate from which they rebound with an amazing exactness up through the shaft opening of a ring bearing and down again upon another similar plate through an opening into the cabinet.

PROFESSIONAL TALENT AT SMOKER ON FRIDAY

(Continued from Page 1)

three round boxing match in the gymnasium, put on by two well known professional boxers. Mr. Ralston, coach of the Technology boxing team, will act as referee for the bout.

Immediately after the boxing match, all students will assemble in the Main Hall, where President S. W. Stratton will deliver a brief address of welcome. As is the annual custom, the key to Walker will then be presented by the Alumni to D. A. Shepard '26, Chairman of the Institute Committee, representing the student body. The program will continue with the showing of a two-reel comedy movie, song and cheers led by O. B. Denison '11, Secretary of the Alumni Association, and the raffling off of many valuable prizes to the holders of lucky numbers. In addition to the large Technology Banner which will be raffled to the freshmen, all men present possessing the numbered handbills will be eligible for other prizes, including a Technology Pillow, a Life-Time Sheaffer fountain pen, and other worth-while articles being secured by the Committee.

For vaudeville entertainment, the committee has obtained the services of the Three Corbett Sisters, dancers who are well-known in the musical comedy world. Following this act, activity movies will be shown, and vocal and piano entertainment will be provided by O. B. Denison '11. The Smoker will close with the singing of the Stein Song. Music will be furnished during the entire evening's entertainment by Paul Davier's six-piece orchestra.

TECHNIQUE HAS NEW ADVERTISING HEAD

R. L. Cheney '27, has been appointed to succeed R. P. Hawkins '27 as Advertising Manager of Technique. Hawkins, who was the former Advertising Manager, tendered his resignation due to the pressure of studies under the new two-term system, which he says, makes it impossible for him to do justice to Technique.

CHEMICAL SOCIETY

There will be a meeting of the officers of the Chemical Society on Friday, October 9, at 5 o'clock in room 3-312.

THE TECHTONIANS

Rehearsal to-night at 5 sharp, in West Lounge, Walker. All men who have not had tryouts are also requested to attend. Places still open for piano, saxophone, trumpet and bass players.

TUG-OF-WAR

Candidates report every night at 5.00 P. M. Freshmen report in back of track house and Sophomores by rifle range. More men are needed.

Notices and Announcements

OFFICIAL

FRESHMAN MILITARY SCIENCE

Freshmen excused from Military Science because of physical disability must take that part of MS 11 involving lectures. They should register for MS 11 and report to classes at the start of the lecture course which will be, weather permitting, November 9.

PHYSICAL TRAINING

All freshmen who are going to register for Physical Training should sign up at once for strength tests in Room 335 Walker.

H. P. McCarthy,
Physical Director.

PHYSICAL TRAINING

All freshmen who wish to substitute sport for Physical Training classes must sign up in the office of the Physical Director, room 335, Walker Memorial, before 12 o'clock Saturday, October 24. The following sports may be substituted: Track, Crew, Swimming, Boxing, Wrestling, Fencing, Gym Team, and Basketball.

PHYSICAL EXAMINATION

Physical examination of all new students entering the Institute is compulsory. Please make appointments at the Department of Hygiene, Room 3-019 as soon as possible.

UNDERGRADUATE

CREW MANAGERIAL COMPETITION

All candidates for the crew managerial competition are requested to report at the boathouse any night after 4.

FRESHMAN FOOTBALL

There will be freshman football practice every afternoon at 4 on Tech Field. On your toes, frosh.

LUTHERAN STUDENTS

Lutheran Students of Technology are invited to attend the reception of the Lutheran Students' Association of Greater Boston, to be held Friday at 8 at the Phillips Brooks House, Harvard, and the Association Service 4 P. M., Sunday, at the Augustana Church, Broadway St., Cambridge.

TRACK AND CROSS COUNTRY MANAGER

Candidates for manager of track and cross-country report at Track House any afternoon between 3 and 6 o'clock.

T. C. A. EMPLOYMENT BUREAU

All men having application cards on file in the T. C. A. Employment Bureau will find it to their advantage to place their schedule upon their cards.

SQUARE AND COMPASS CLUB

All Masons are requested to drop a card giving their name and address in box 150 M. I. T.

CATHOLIC CLUB

A supper meeting of the Technology Catholic Club will be held in the north hall of Walker today. Dean Talbot and F. F. O'Neill will speak. All interested are invited.

FRESHMEN SECTION LEADERS

There will be a meeting of the Freshmen Section Leaders in room 2-290 at 5.30 o'clock today.

TECHNIQUE COMPETITION

The Technique competition is now open to Juniors for the position of Publicity Manager. All men interested should report to Technique office, room 308, Walker Memorial, every afternoon at four o'clock.

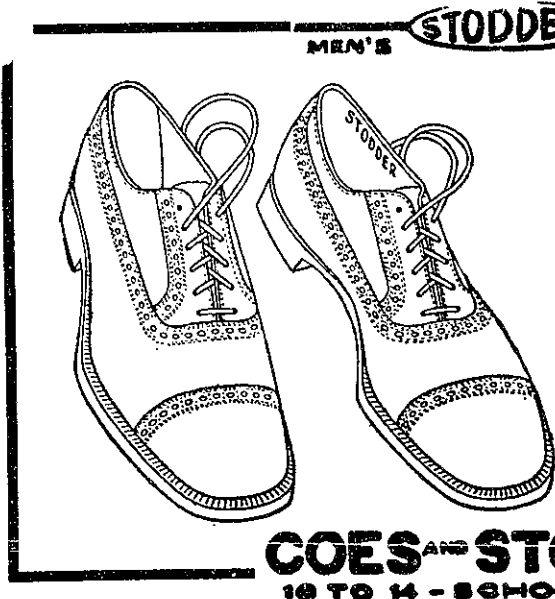
Louis French Restaurant
Off Avery St.—Rear of Hotel Avery
SPECIAL LUNCH \$1.00
TABLE D'HOTE LUNCH .75
PLAYGOERS DINNER 1.50
Daily specials and a la Carte
Every facility for banquets and parties
Special Orchestra and Dancing
till 1 A. M.
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Tan Moor Calf \$15

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T. C. A. REPRESENTED AT STUDENT COUNCIL

Four Tech Men Attend First
Meeting at Y. M. C. A.

J. H. Wills '26, president of the T. C. A., E. A. Church '27, manager of church relations, and secretaries C. C. Shotts and W. M. Ross represented Technology at the first meeting of the Student Work Council held in the Boston Y. M. C. A. last evening at 6 o'clock. The Council is made up of students pastors, secretaries of Christian associations and undergraduates. M. C. Fetter Jr., student pastor of the First Baptist church of Boston is president of the council.

The T. C. A. church relations division recently sent letters to 20 churches asking whether or not they would care for lists of students of their respective denominations now attending the Institute. Replies in the affirmative have been received from all the churches and lists are now being made under the direction of E. A. Church '27.

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